910

A/V SURROUND
SOUND
PROCESSOR

910

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SERVICE MANUAL

NAD

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SERVICE SAFETY PRECAUTIONS

1. Replacing the fuses

CAUTION: FOR CONTINUED PROTECTION AGAINST THE RISK OF FIRE, REPLACE ONLY WITH SAME TYPE OF FUSE.

Reference No.	Part Number	Description
F001*AH	595G0012F	1A/250V fast blow, glass (UL/CSA)
F001*C	595G00123F	F1AL/250V (SEMKO/VDE)
F002*AH	595G0012F	1A/250V fast blow, glass (UL/CSA)
F002*C	595G00123F	F1AL/250V (SEMKO/VDE)

Note:

*AH : U.S.A., Canadian model only.
*C : European model only.

2. Safety-check out
(U.S.A model only)

Parts marked with the symbol ⚠ are critical with regard to the risk of fire and electric shock. Replace only with parts recommended by the manufacturer.

Before returning the product to the customer, make leakage current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit.

SPECIFICATIONS

LEVELS:

	FRONT	CENTER	REAR
Dolby	300mV	220mV	215mV
Club	280mV	-	-
Hall	310mV	220mV	200mV
Stadium	290mV	-	180mV
AV Stereo	310mV	-	-

FREQUENCY RESPONSE:

	FRONT	CENTER	REAR
Dolby (+0 -3dB)	12Hz-45kHz	220Hz-22kHz	30Hz-6.5kHz
Club (+0 -3dB)	78Hz-1.6kHz	-	-
Hall (+0 -3dB)	12Hz-45kHz	220Hz-22kHz	30Hz-6.5kHz
Stadium (+0 -3dB)	200Hz-42kHz	-	30Hz-6.5kHz
AV Stereo (+0 -3dB)	12Hz-50kHz	-	-

HUM AND NOISE (Input Shorted, DIN Audio/IHF A)

	FRONT	CENTER	REAR
Dolby	75/80dB	75/80dB	61/67dB
Club	78/83dB	-	-
Hall	75/80dB	75/80dB	61/67dB
Stadium	75/81dB	-	57/64dB
AV Stereo	76/81dB	-	-

HARMONIC DISTORTION: (Input 1kHz; Output 1V; 80kHz Filter ON)

	FRONT	CENTER	REAR
Dolby	0.06%	0.1%	0.6%
Club	0.04%	-	-
Hall	0.06%	0.1%	0.6%
Stadium	0.04%	-	0.6%
AV Stereo	0.04%	-	-

OVERLOAD: (Input 1kHz; Output 1V; Distortion 1%)

	FRONT	CENTER	REAR
Dolby	2.8V	1.75V	1.5V
Club	4V	-	-
Hall	2.8V	1.75V	1.5V
Stadium	4V	-	1.5V
AV Stereo	4V	-	-

RESIDUAL NOISE: (DIN Audio/IHF A)

FRONT	CENTER	REAR
12uV	40uV	25uV

CHANNEL SEPARATION:

	FRONT	CENTER	REAR
Dolby - L or R	-36dB	-46dB	-40dB
Center	-35dB	-	-35dB
Rear	-45dB	-32dB	-
Club - L or R	-18dB	-	-
Stadium	-17dB	-	-
AV Stereo	-65dB	-	-

SUB WOOFER:

Sensitivity (Output 1V, 80Hz)	FRONT	CENTER	REAR
	380mV	190mV	
Frequency Response	120Hz (-3dB)		

SIBILANCE FILTER (Input 6.5kHz)..... -2dB

CDR (Input 1kHz -15dBv)..... +5dB

PEAK OVERLOAD SENSITIVITY..... 3V

VIDEO SECTION:

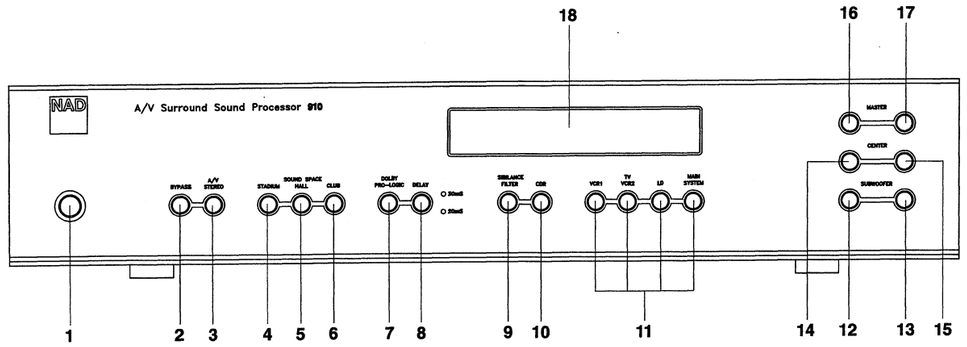
Sensitivity (Output Level 1V, 75 Ohm Load)..... 1V
Frequency Response..... 10Hz-10MHz -1dB
Overload 1.4V
Signal to Noise Ratio..... 120dB

GENERAL:

Power Consumption..... 15W
Dimensions..... 435(W)x86(H)x302(D)mm
Weight..... 4.3kg/9.48lbs.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

FRONT PANEL

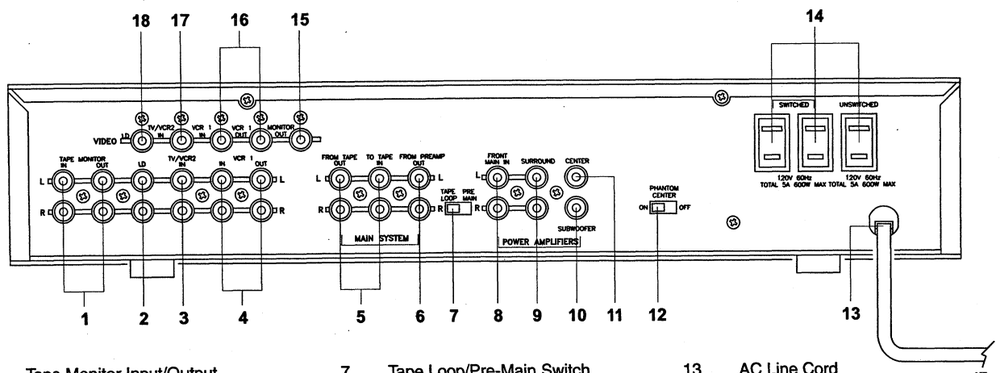


1. Power
2. Bypass
3. A/V Stereo
4. Stadium Sound Space
5. Hall Sound Space
6. Club Sound Space
7. Dolby Pro-Logic
8. Delay
9. Sibilance Filter
10. CDR
11. Input Selector
12. Subwoofer Level - Down
13. Subwoofer Level - Up
14. Center Level - Down
15. Center Level - Up
16. Master Level - Down
17. Master Level - Up
18. Display

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

REAR PANEL



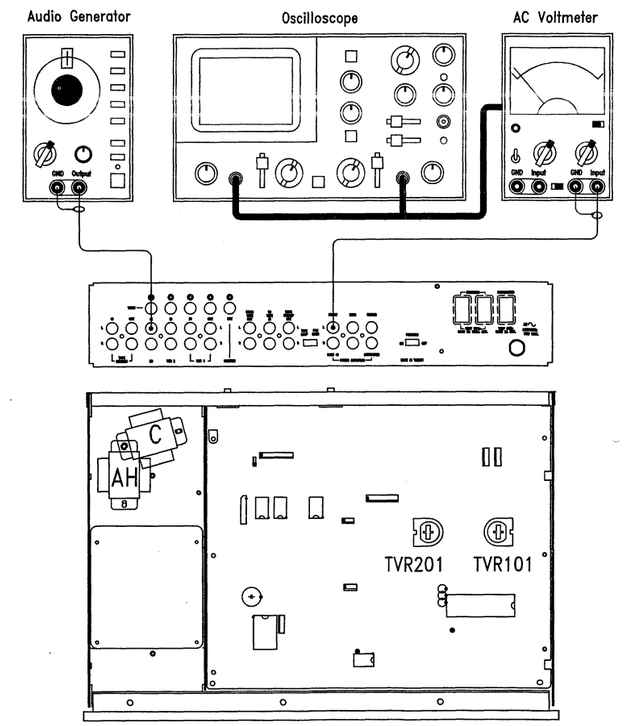
1. Tape Monitor Input/Output
2. LD Audio Input
3. TV/VCR2 Audio Input
4. VCR1 Audio Input/Output
5. Main System - Tape Output/Input
6. Main System - Preamp Output
7. Tape Loop/Pre-Main Switch
8. Front Main In Output
9. Surround Output
10. Subwoofer Output
11. Center Output
12. Phantom Center Switch
13. AC Line Cord
14. AC Outlets (AH Version Only)
15. Video Monitor Output
16. VCR1 Video Input/Output
17. TV/VCR2 Video Input
18. LD Video Input

ALIGNMENT PROCEDURE

CDR

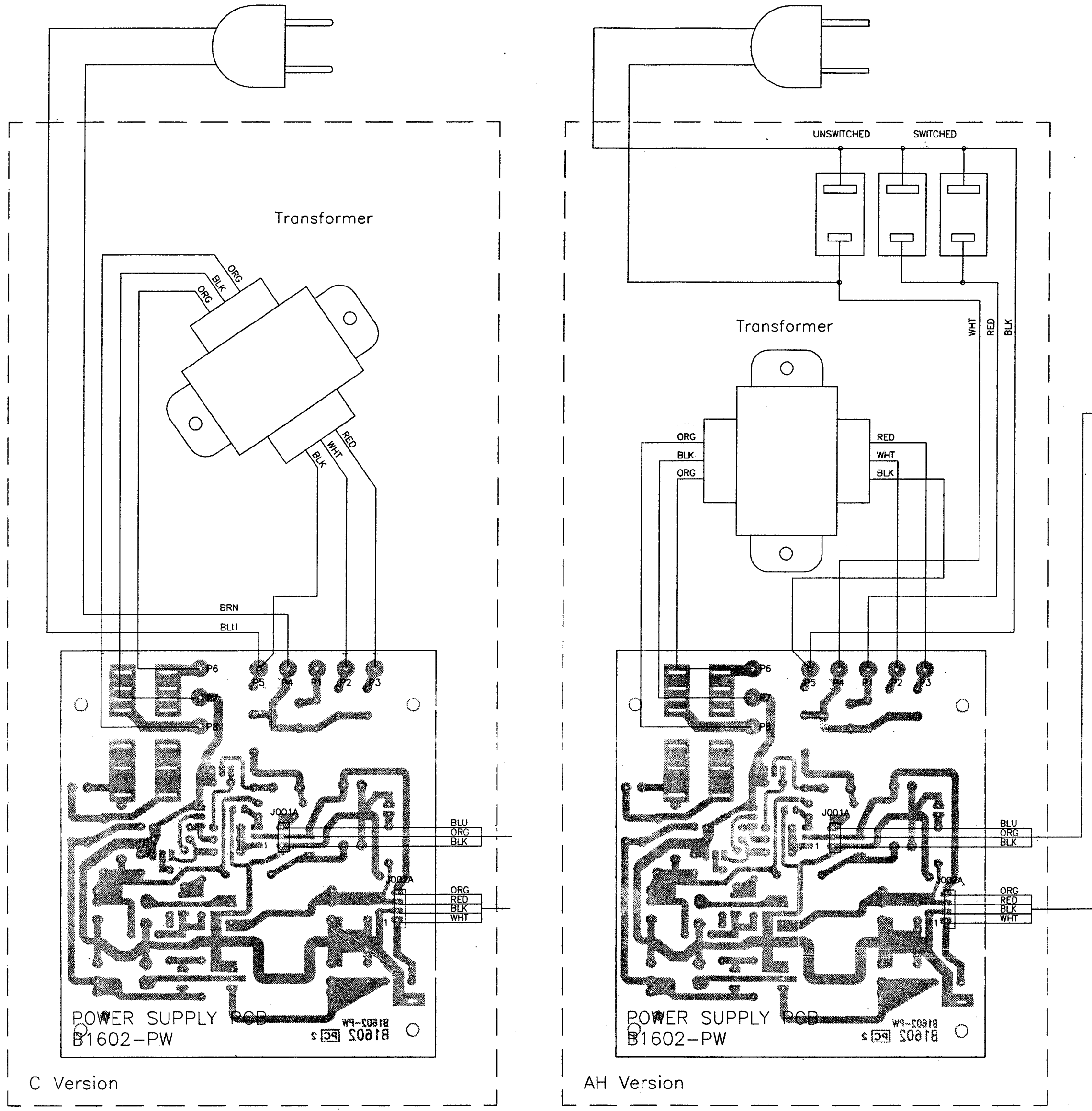
1. Select LD input and HALL mode at front panel, and PRE-MAIN and PHANTOM CENTER off at rear panel.
2. Connect AC voltmeter to FRONT MAIN IN.
3. Apply 177mV to LD input, left channel only.
4. Switch CDR off and take note of the output level.
5. Switch CDR on.
6. Adjust TVR101 for 5dB increase in output level.
7. Remove input signal at left channel and put to right channel.
8. Repeat steps 4 to 6, adjusting TVR201.
9. Repeat the whole procedure if the difference between left and right output levels exceed 0.2dB.

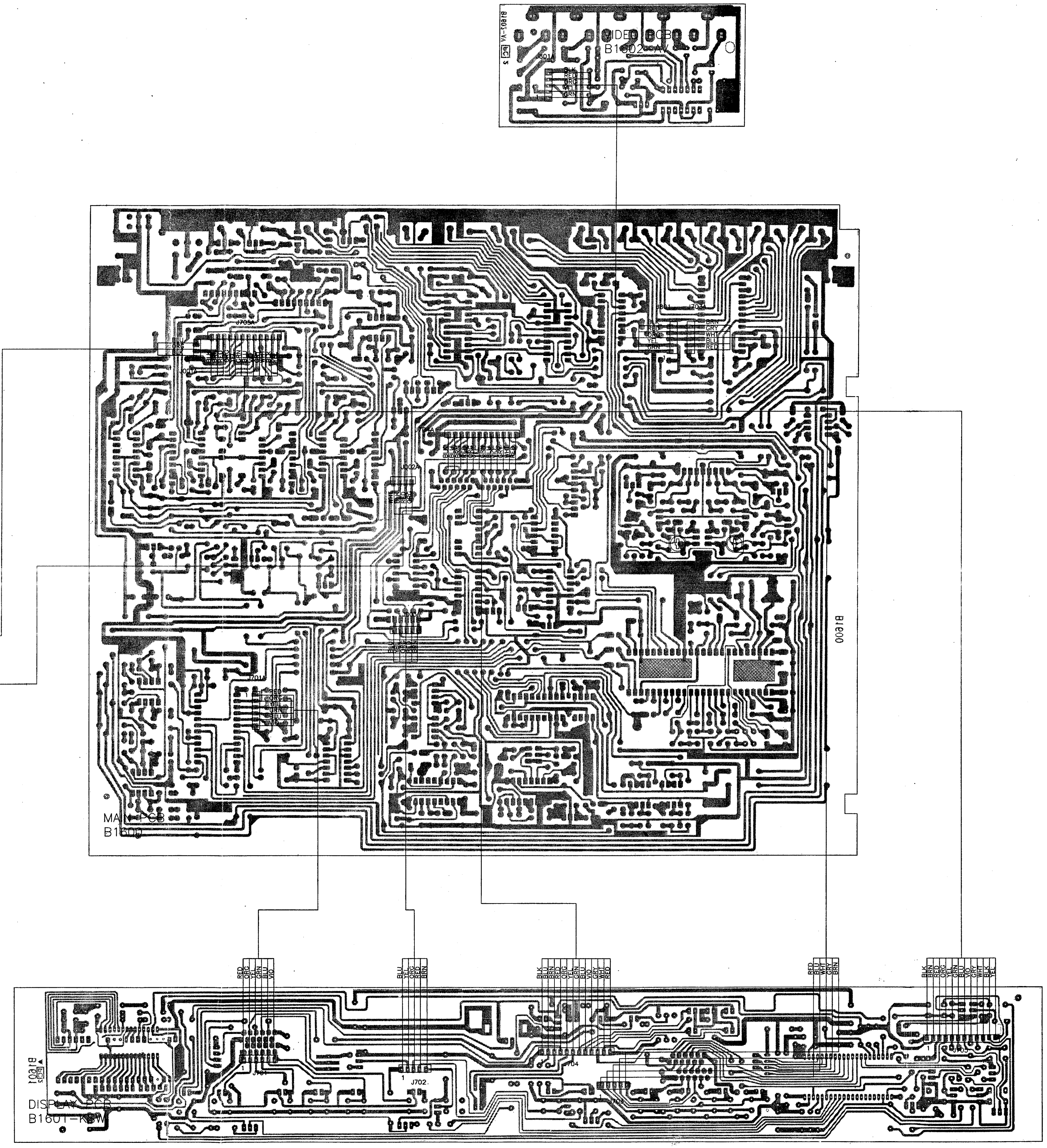
Instrument Setup



ADJUSTMENT POINTS

WIRING DIAGRAM




VIDEO PCB
B1602-AV
J801A
BLK
RED
ORG
YEL
GRN
J705A
J001A
BLU
ORG
BLK
J704A
J002A
J003A
J701A
RED
ORG
YEL
GRN
BLU
VIO
J801
J703A
BRN
GRY
WHT
BLU
RED
B1600
MAIN PCB
B1600
RED
ORG
YEL
GRN
BLU
VIO
BLU
YEL
ORG
RED
BRN
BLK
BLU
BRN
RED
ORG
YEL
GRN
BLU
VIO
GRY
WHT
RED
RED
BLU
WHT
GRY
BRN
BLK
BRN
RED
ORG
YEL
GRN
BLU
VIO
GRY
WHT
BLK
YEL
J701
J702
J704
J703
J705
DISPLAY PCB
B1601-KSW

NOTE:

ALL PCBs SHOWN COMPONENT SIDE.

LEGEND:

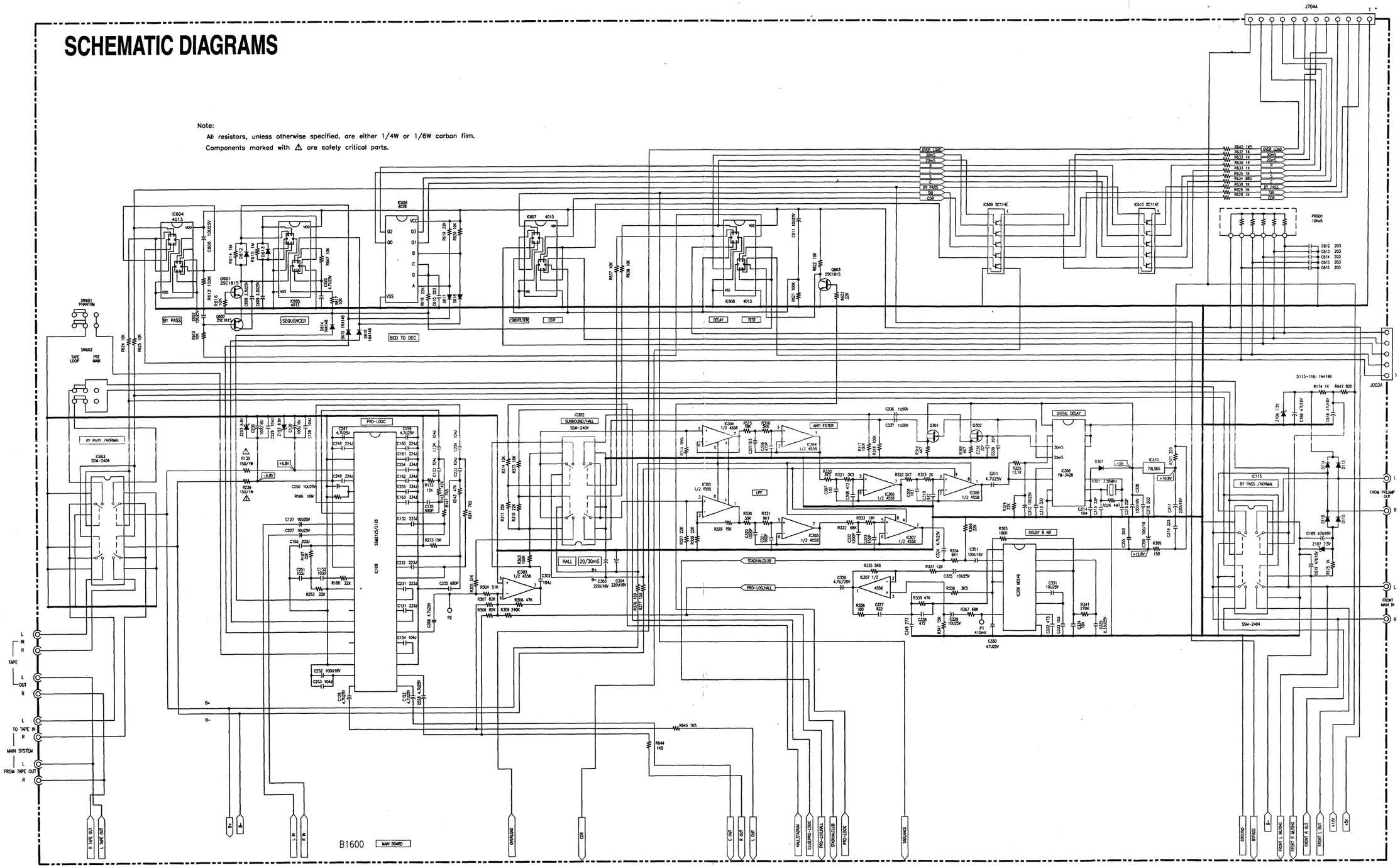
- BLK – BLACK
- BRN – BROWN
- RED – RED
- ORG – ORANGE
- YEL – YELLOW
- GRN – GREEN
- BLU – BLUE
- VIO – VIOLET
- GRY – GRAY
- WHT – WHITE

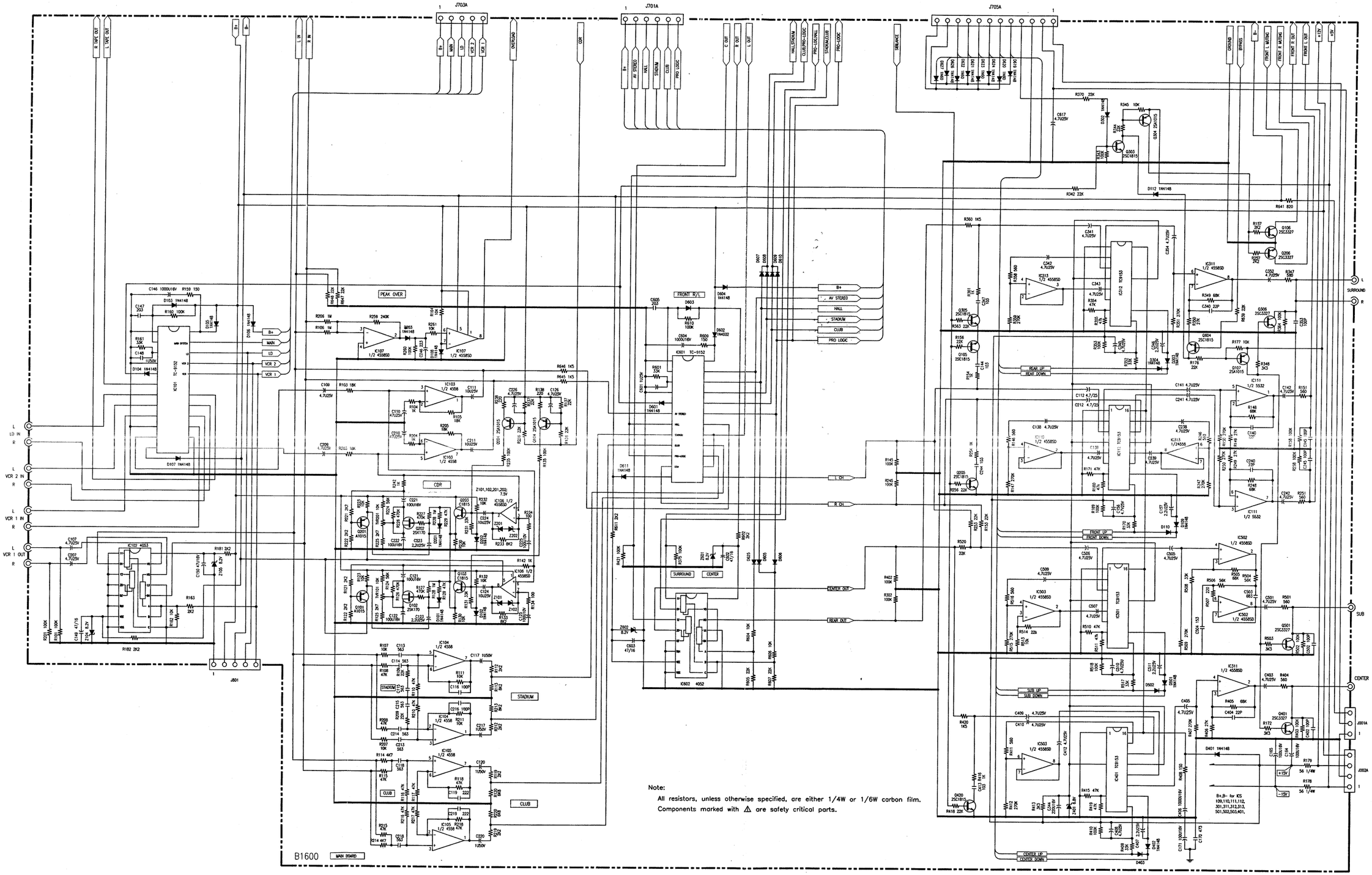
SCHEMATIC DIAGRAMS

Note:

All resistors, unless otherwise specified, are either 1/4W or 1/6W carbon film.

Components marked with ⚠ are safety critical parts.

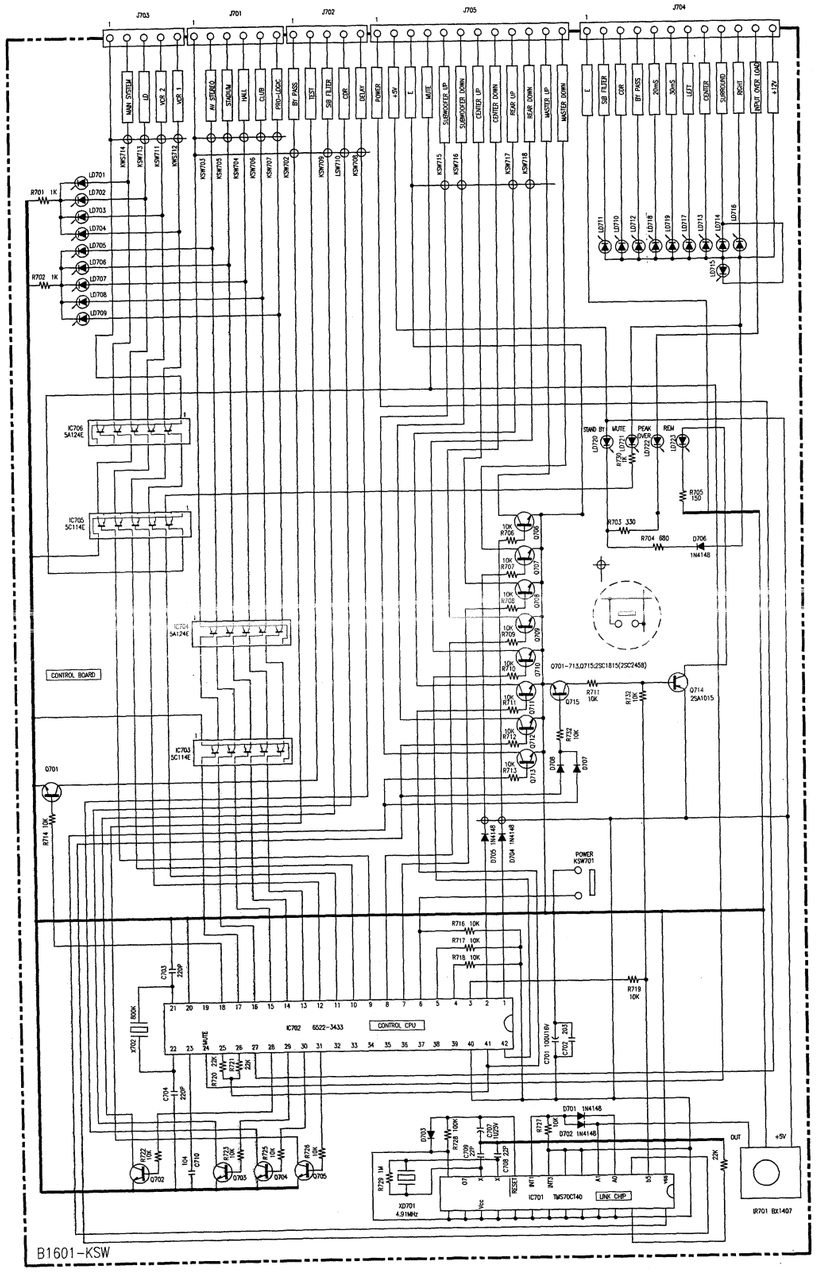


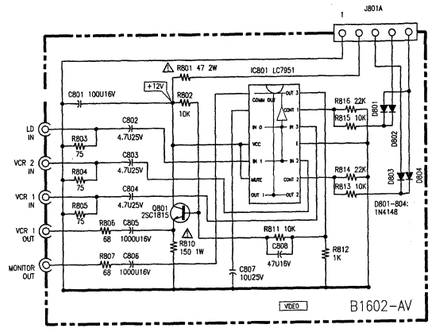

J703A
J701A
J705A
R. PRE OUT
L. PRE OUT
L IN
R IN
B+
B-
MAIN
LD
VCR 2
VCR 1
OVERLOAD
CDR
C OUT
R OUT
L OUT
HALL/STADIUM
CLUB/PRO-LOGIC
PRO-LOGIC/HALL
STADIUM/CLUB
PRO-LOGIC
SUBWOOFER
GROUND
BYPASS
FRONT L WIRING
FRONT R WIRING
FRONT R OUT
FRONT L OUT
+12V
+5V
AV STEREO
HALL
STADIUM
CLUB
PRO LOGIC
PEAK OVER
FRONT R/L
CDR
STADIUM
CLUB
SURROUND
CENTER
L CH
R CH
CENTER OUT
REAR OUT
REAR UP
REAR DOWN
FRONT UP
FRONT DOWN
SUB UP
SUB DOWN
CENTER UP
CENTER DOWN
SURROUND
CENTER
SUB
L LD IN R
L VCR 2 IN R
L VCR 1 IN R
L VCR 1 OUT R
J801
J001A
J002A
B+,B- for ICS 109,110,111,112, 301,311,312,313, 501,502,503,401,
Note:
All resistors, unless otherwise specified, are either 1/4W or 1/6W carbon film.
Components marked with ⚠ are safety critical parts.
B1600
MAIN BOARD

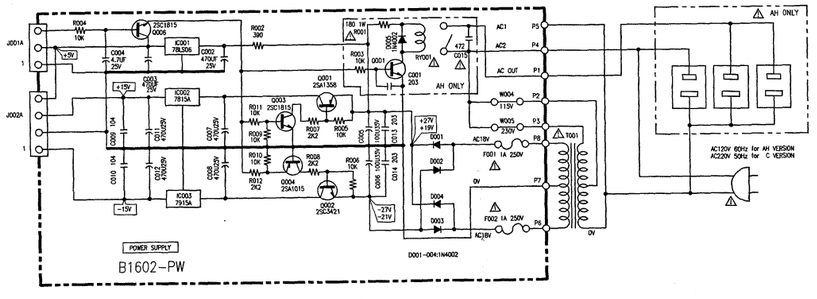
Note:

All resistors, unless otherwise specified, are either 1/4W or 1/6W carbon film.

Components marked with ⚠ are safety critical ports.

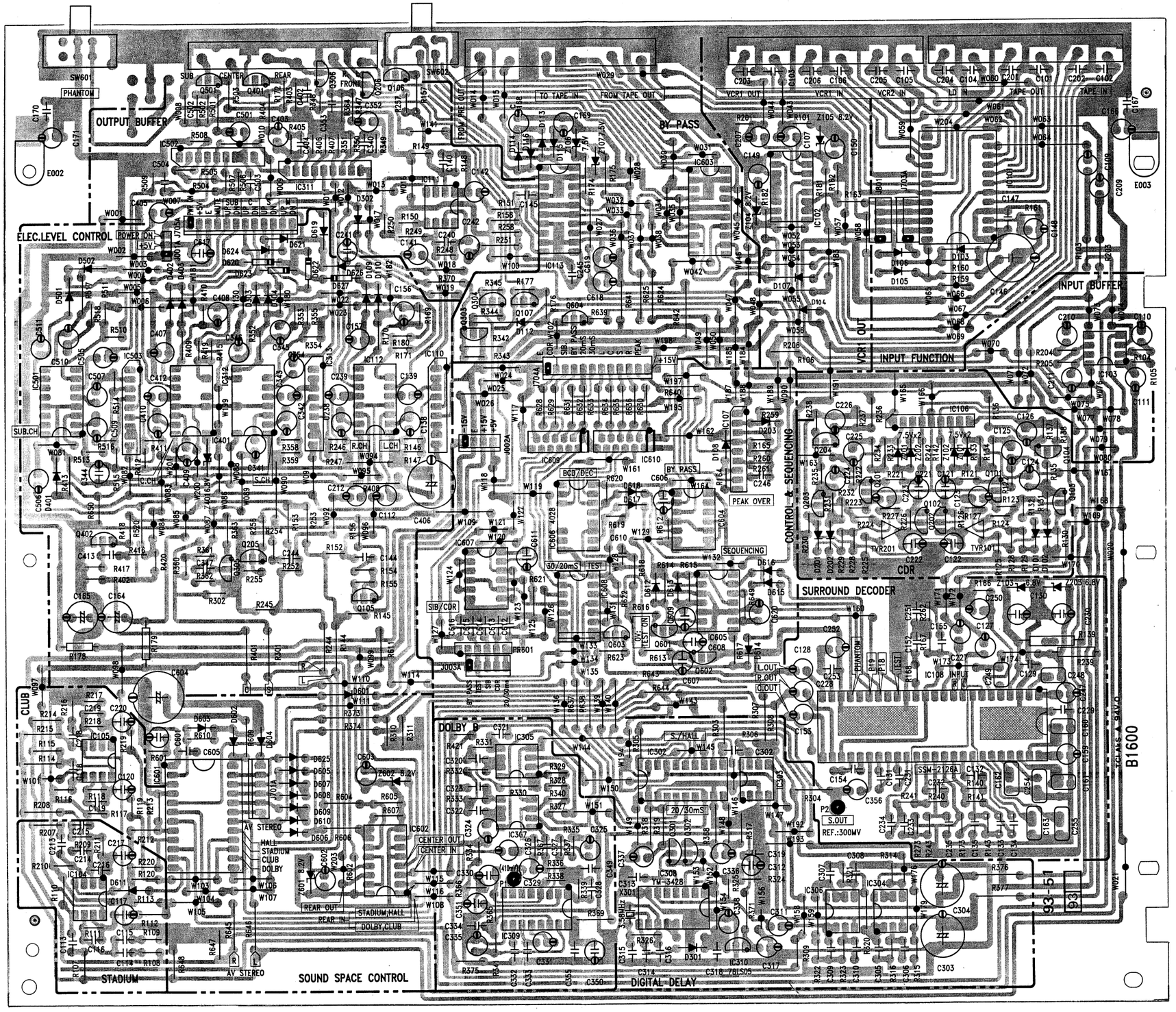




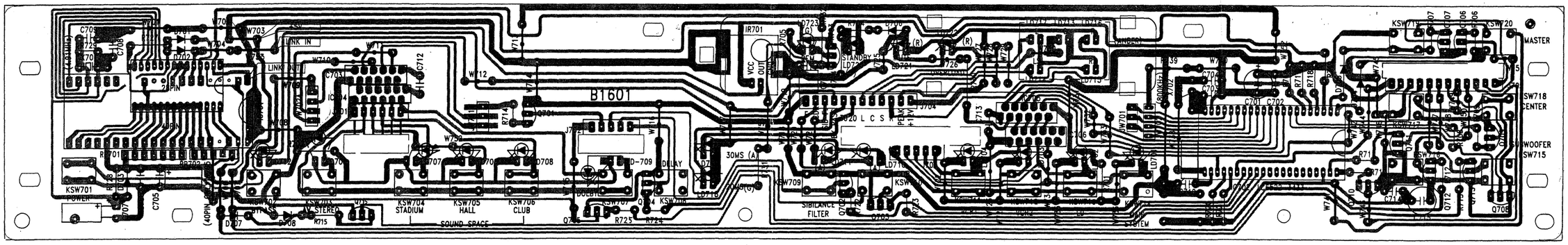


PCB LAYOUTS

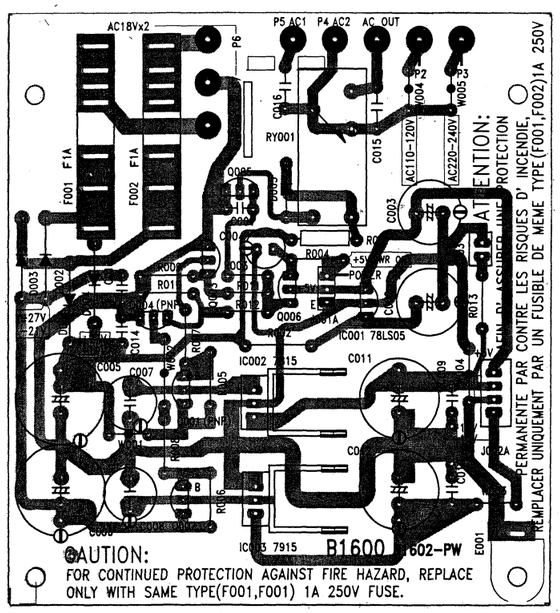
MAIN PCB



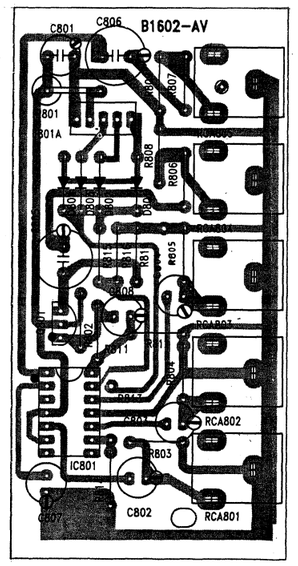
DISPLAY PCB



POWER SUPPLY PCB

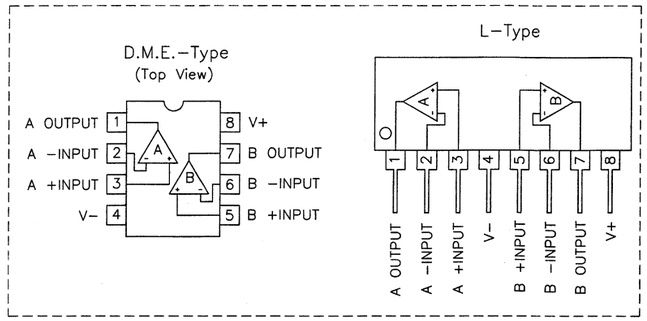


VIDEO PCB

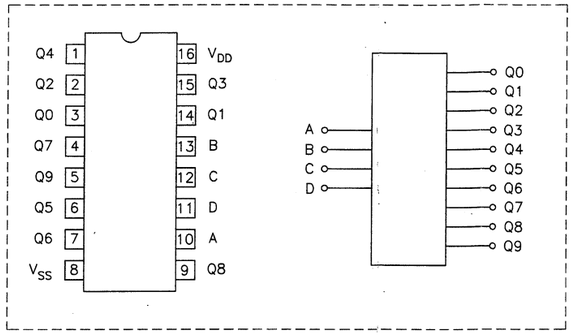


IC BLOCK DIAGRAMS

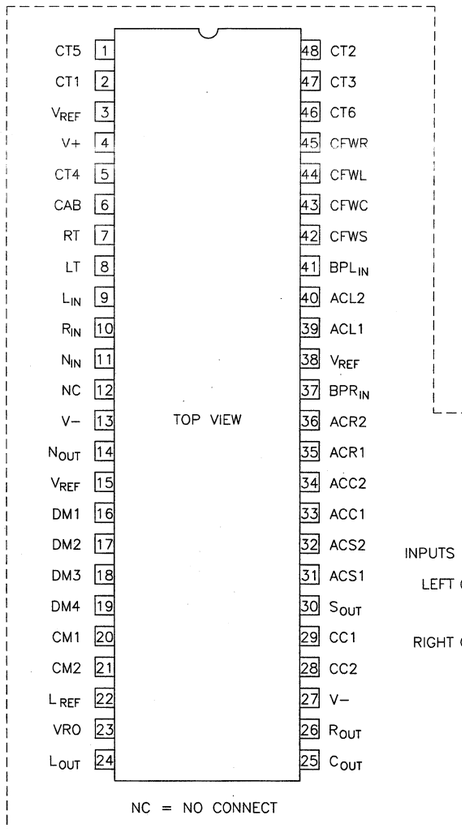
JRC4558/NE5532



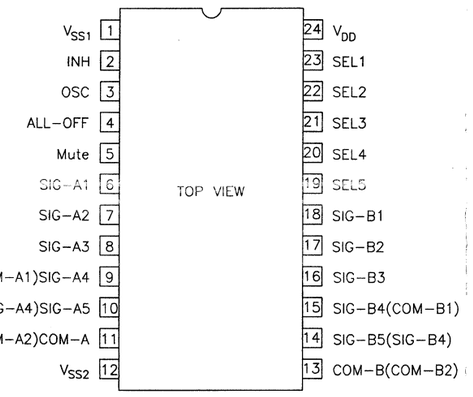
TC-4028

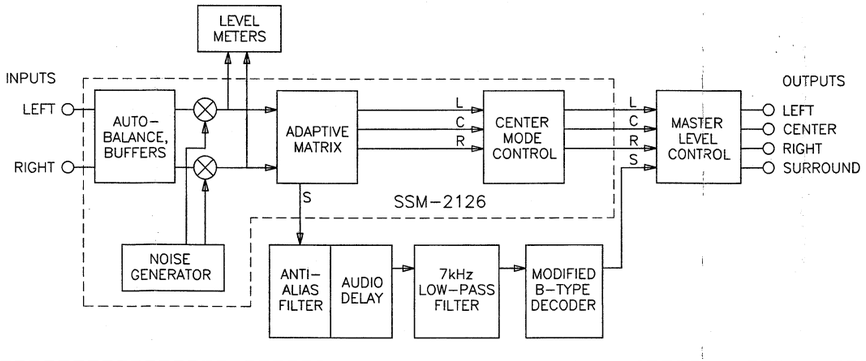


SSM-2126

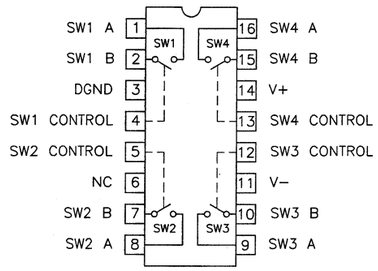


TC9152

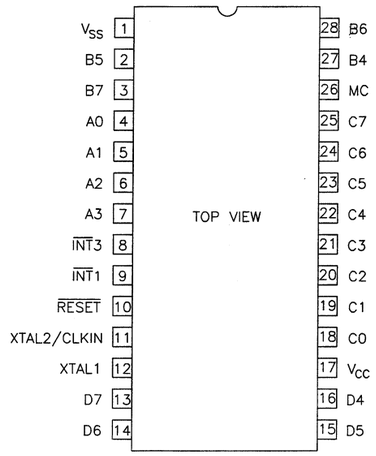




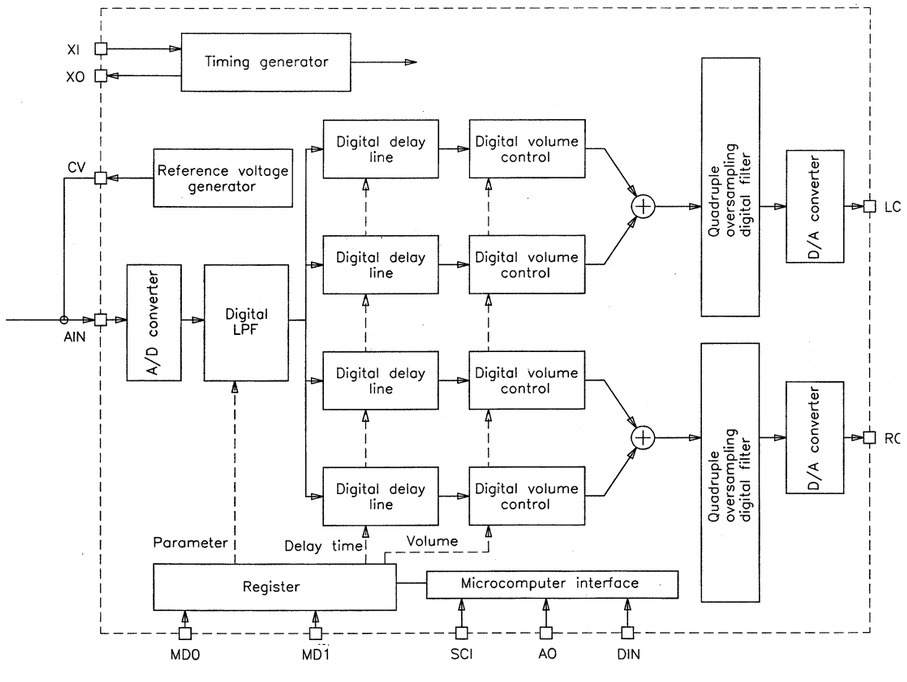
SSM-2404



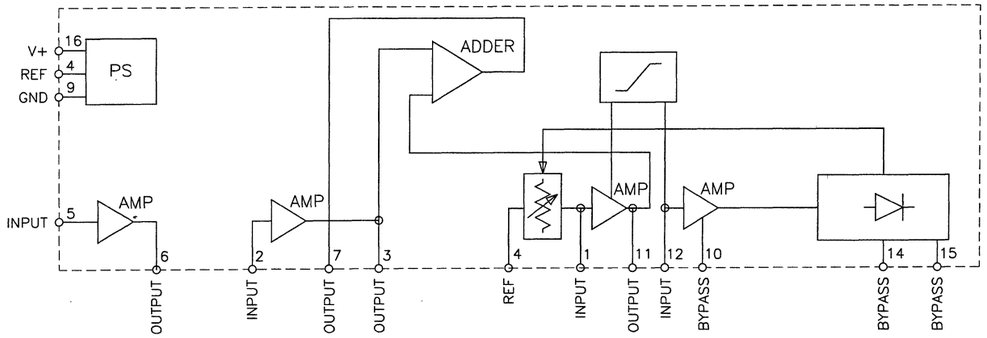
TMS70CT40



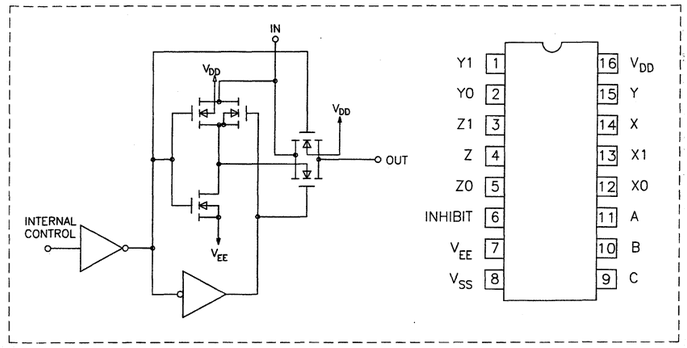
YM-3428



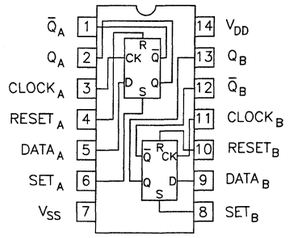
NE646



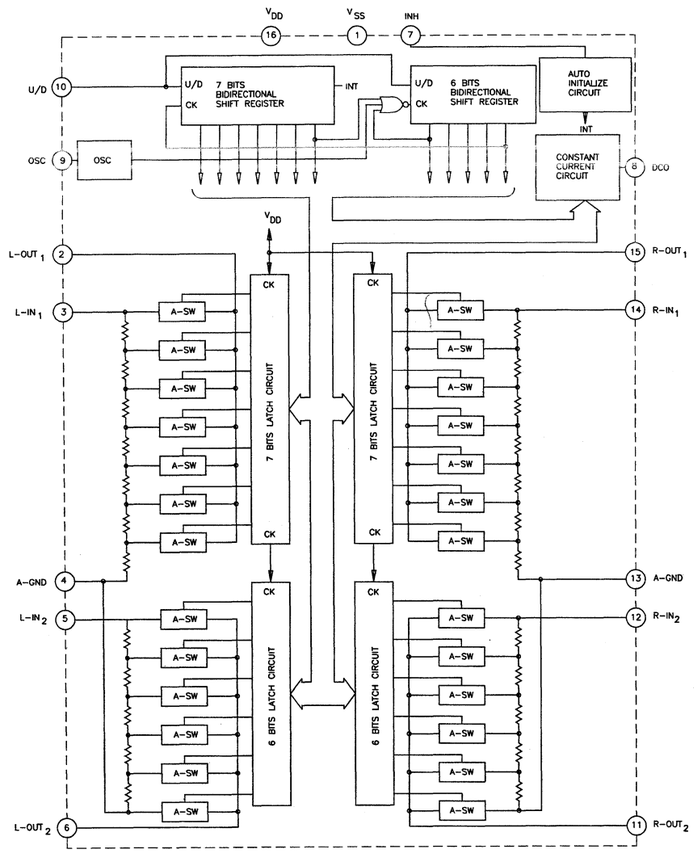
TC4053



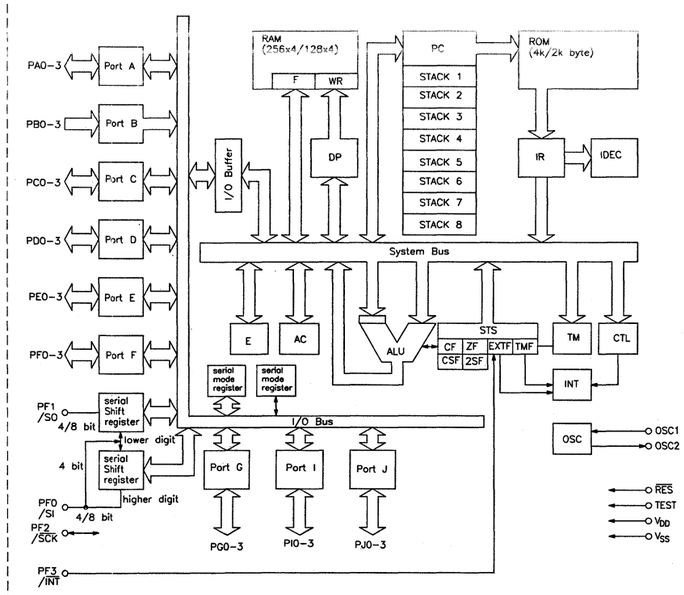
TC−4013

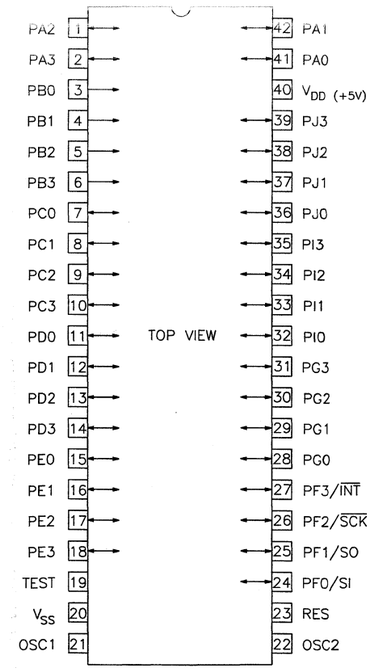


TC9153P

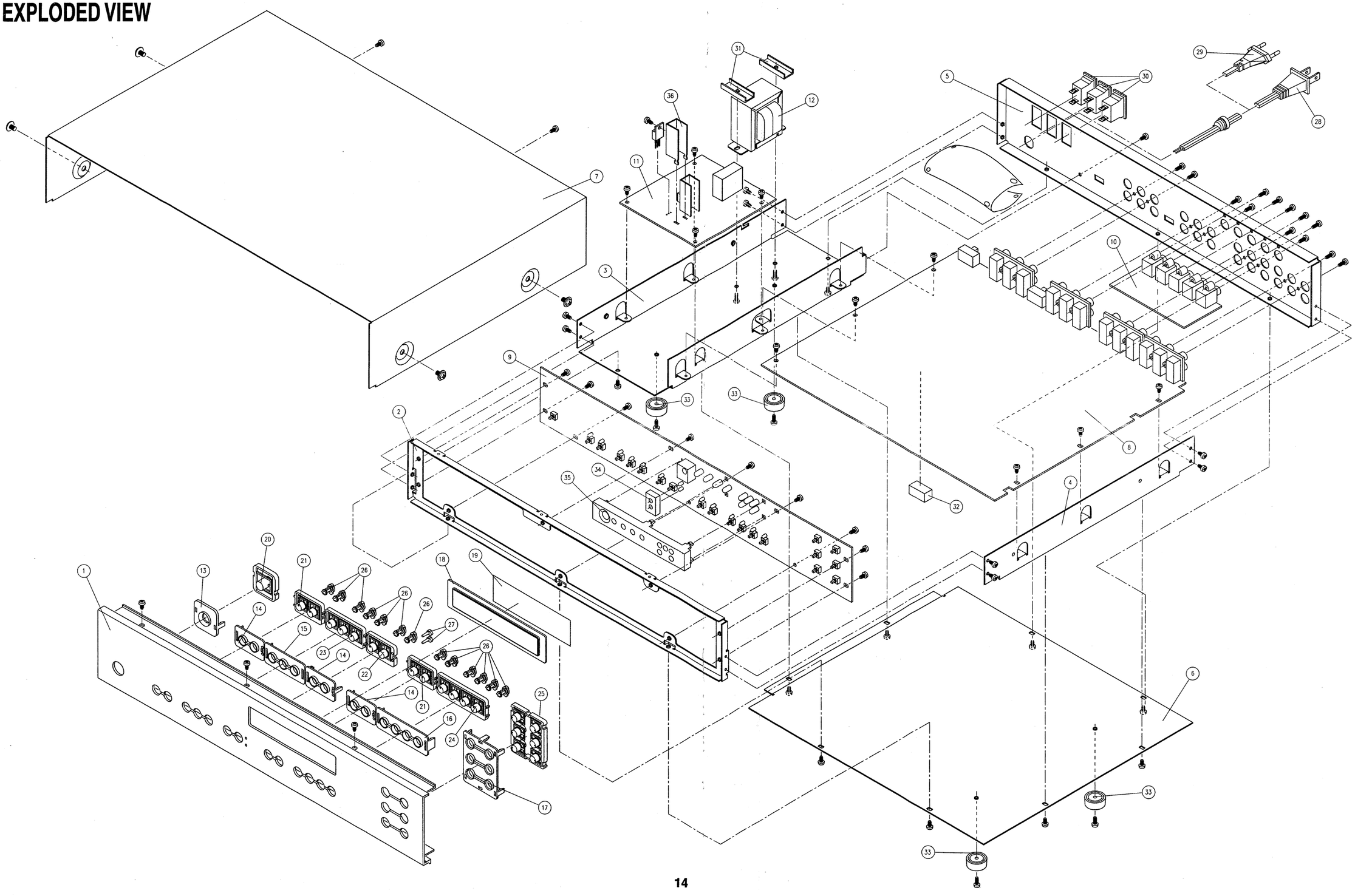


6522C−3433





EXPLODED VIEW



EXPLODED VIEW PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION				QTY.
1	78L438	Front Panel	L-438			1
2	78C1845	Subfascia	C-1845			1
3	78C1847	Chassis, Left	C-1847			1
4	78C1849	Side Panel	C-1849			1
5	99RSC1846A	Rear Panel	C-1846AH	(AH)		1
	99RSC1846B	Rear Panel	C-1846C	(C)		1
6	78C1848	Bottom Plate	C-1848			1
7	78C1850	Top Cover	C-1850			1
8	97B1600	Main PCB	B1600	with components		1
9	97B1601KSW	Display PCB	B1601-KSW	with components		1
10	97B1602AV	Video PCB	B1602-AV	with components		1
11	97B1602PW	Power Supply PCB	B1602-PW	with components		1
12	70EMUV910	Transformer			⚠	1
13	88A445	Power Bezel	A-445			1
14	88A4442P	Dual Bezel	A-444			3
15	88A4433P	Triple Bezel	A-443			1
16	88A4424P	4-way Bezel	A-442			1
17	88A4406P	6-way Bezel	A-440			1
18	85A439	Acrylic Window	A-439			1
19	85A446	Diffuser				1
20	20KB315	Button, Power				1
21	20KB313	Push Sw 2P	KB-313			2
22	20KB314	Push Sw 2P	KB-314			1
23	20KB312	Push Sw 3P	KB-312			1
24	20KB311	Push Sw 4P	KB-311			1
25	20KB310	Push Sw 6P	KB-310			1
26	85A441	Acrylic Pin	A-441			13
27	85A447	Acrylic Pin	A-447			2
28	682SPT22B	AC Cord	SPT-2	(AH)	⚠	1
29	682PVDE2B	AC Cord	2P VDE	(C)	⚠	1
30	55AC0715	AC Socket	AC004	(AH)	⚠	3
31	78C1346	Bracket	C-1346			2
32	84SNAD910	Sponge				1
33	81FT35NAD	Foot	4TR-1257A			4
34	84E289	LED Holder				1
35	88A446	Frame, LED	A-446			1
36	78H042	Heat Sink	H-042 White			2

ELECTRICAL PARTS LIST

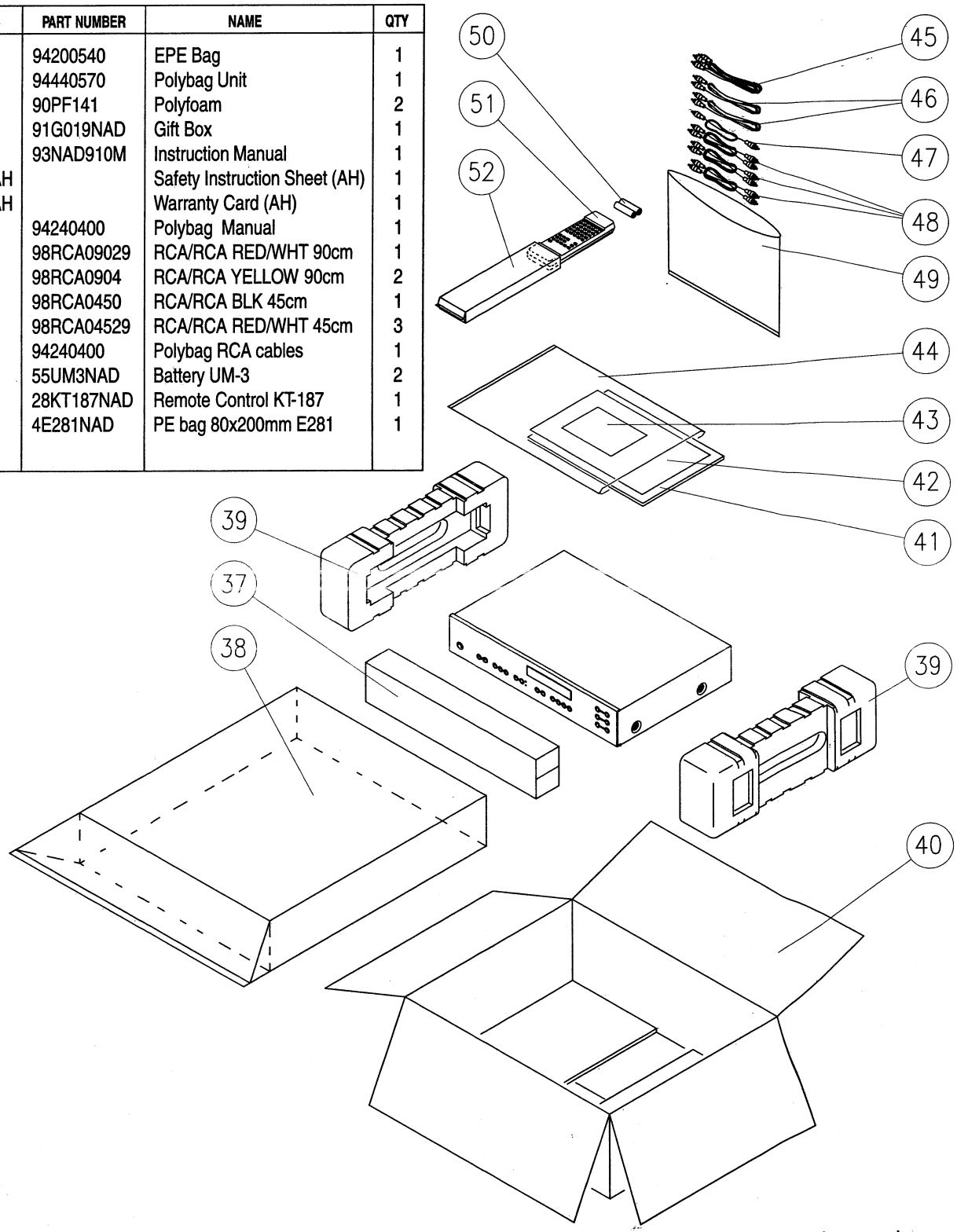
PART NUMBER	REFERENCE NUMBER	DESCRIPTION							REMARKS
Video PCB									
97B1602AV		AV PCB Assembly		B1602-AV					
300047M2TJ	R801	Resistor	Metal Oxide	2W	T	10%	47	⚠	
30010KC4TJ	R802,811,813,815	Resistor	Carbon	1/4W	T	5%	10K		
300075C4TJ	R803,804,805	Resistor	Carbon	1/4W	T	5%	75		
300068C4TJ	R806,807	Resistor	Carbon	1/4W	T	5%	68		
300150M1TJ	R810	Resistor	Metal Oxide	1W	T	5%	150	⚠	
30001KC4TJ	R812	Resistor	Carbon	1/4W	T	5%	1K		
30022KC4TJ	R814,816	Resistor	Carbon	1/4W	T	5%	22K		
40100U16RM	C801	Capacitor	Electrolytic	100uF	16V				
04P7U25RM	C802,803,804	Capacitor	Electrolytic	4.7uF	25V				
01KU16RM	C805,806	Capacitor	Electrolytic	1000uF	16V				
40010U25RM	C807	Capacitor	Electrolytic	10uF	25V				
40047U16RM	C808	Capacitor	Electrolytic	47uF	16V				
131N4148TO	D801,802,803,804	Diode		1N4148					
11LC7951	IC801	I.C.		LC7951					
122SC1815	Q801	Transistor		2SC1815					
Power Supply PCB									
97B1602PW		Power Supply PCB Assembly		B1602-PW					
300150M1TJ	R001	Resistor	Metal Oxide	1W	T	10%	150	⚠	
300390C4TJ	R002	Resistor	Carbon	1/4W	T	5%	390		
30010KC4TJ	R004,005,006,009,010	Resistor	Carbon	1/4W	T	5%	10K		
3002K2C4TJ	R007,008	Resistor	Carbon	1/4W	T	5%	2K2		
41203U50RJ	C001	Capacitor	Mylar	203	50V				AH Only
0470U25RM	C002,003,007,008	Capacitor	Electrolytic	470uF	25V				
404P7U50RM	C004	Capacitor	Electrolytic	4.7uF	50V				
01KU35RM	C005,006	Capacitor	Electrolytic	1000uF	35V				
5104U53MD	C009,010	Capacitor	MPD-D	104	250V				
40470U25RM	C011.012	Capacitor	Electrolytic	470uF	25V				
42203U50RJ	C013,014	Capacitor	Ceramic	203	50V				
2472250VU	C015	Capacitor	VDE	472	250V			⚠	AH Only
1178LS05	IC001	I.C.		78LS05					
117815A	IC002	I.C.		7815A					
117915A	IC003	I.C.		7915A					
122SA1358	Q001	Transistor		2SA1358					
122SC3421	Q002	Transistor		2SC3421					
122SC1815	Q003,006	Transistor		2SC1815					
122SA1015	Q004	Transistor		2SA1015					
12SD468	Q005	Transistor		2SD468					AH Only
131N4002TO	D001,002,003,004	Diode		1N4002					
131N4002TO	D005	Diode		1N4002					AH Only
6112V3VMX1	RY001	Relay		12V3A	MX1			⚠	AH Only
595G0012F	F001, F002*AH	Fuse		1A/250V	fast blow, glass		UL/CSA	⚠	AH Only
595G00123F	F001, F002*C	Fuse		F1AL/250V			SEMKO/VDE	⚠	C Only
Display PCB									
97B1601KSW		Display PCB Assembly		B1601-KSW					
300680C4TJ	R701,702	Resistor	Carbon	1/4W	T	5%	680		
300330C4TJ	R703	Resistor	Carbon	1/4W	T	5%	330		
300150C4TJ	R705	Resistor	Carbon	1/4W	T	5%	150		
3002K2C4TJ	R730	Resistor	Carbon	1/4W	T	5%	2K2		
30010KC4TJ	R731,732,W733	Resistor	Carbon	1/4W	T	5%	10K		
42220U16RM	C701	Capacitor	Electrolytic	220uF	16V				
42203U50RJ	C702,706	Capacitor	Ceramic	203	50V				
42220P50RJ	C703,704	Capacitor	Ceramic	220P	50V				
42100U16RM	C705	Capacitor	Electrolytic	100uF	16V				
40001U50RM	C707	Capacitor	Electrolytic	1uF	50V				
42022P50RJ	C708,709	Capacitor	Ceramic	22P	50V				
4O0P1U50RM	C710	Capacitor	Electrolytic	0.1uF	50VKULR				
131N4148TO	D701-708	Diode		1N4148					
11TMS77C82	IC701	I.C.		TMS70CT40					
11LC6522	IC702	I.C.		LC-6522-3433					
11BC114E	IC703,705	I.C.		BC114E (5C114AE)					
11BA124E	IC704,706	I.C.		BA124E (5A124E)					
122SC1815	Q701-713,715	Transistor		2SC1815/2SC2458					
122SA1015	Q714	Transistor		2SA1015					

PART NUMBER	REFERENCE NUMBER	DESCRIPTION	REMARKS
50C4P91	X701	Crystal Oscillator,Ceramic 4.91MHz	
50C800J	X702	Crystal Oscillator,Ceramic 800J/800K	
163XGT0005	LD701-709	LED 3XGT Green	
163XAT0004	LD710,711	LED 3XAT Yellow	
163XGT0005	LD712.718	LED 3XGT Green	
1605L53YD4	LD713-717,719	LED L-53YD Yellow	
1605L53GD5	LD720,723	LED L-53GD 530010KC6TJ	
1605L53ID2	LD721,722	LED L-53ID Red	
85BX1407	IR701	Receiver BX-1407	
85B351050	KSW701-720	Tact Switch B35-1050	
Main PCB			
97B1600		Main PCB Assembly B1600	
3004K7C4TJ	R114,319,368	Resistor Carbon 1/4W T 5% 4K7	
300150M1TJ	R139,239	Resistor Metal Oxide 1W T 10% 150	⚠
30022KC4TJ	R153,253,342,370,520	Resistor Carbon 1/4W T 5% 22K	
3003K3C4TJ	R157,320,413	Resistor Carbon 1/4W T 5% 3K3	
300150C4TJ	R159,369,609	Resistor Carbon 1/4W T 5% 150	
30100KC4TJ	R160,303,318	Resistor Carbon 1/4W T 5% 100K	
30001KC4TJ	R174,635,636	Resistor Carbon 1/4W T 5% 1K	
30001KC4TJ	R175,628-633	Resistor Carbon 1/4W T 5% 1K	
300056C4TJ	R178,179	Resistor Carbon 1/4W T 5% 56	
3002K2C4TJ	R181,602,611	Resistor Carbon 1/4W T 5% 2K2	
30047KC4TJ	R208,215	Resistor Carbon 1/4W T 5% 47K	
300560C4TJ	R251,404,501	Resistor Carbon 1/4W T 5% 560	
30082KC4TJ	R307,308	Resistor Carbon 1/4W T 5% 82K	
30033KC4TJ	R330,517	Resistor Carbon 1/4W T 5% 33K	
300220C4TJ	R371	Resistor Carbon 1/4W T 5% 220	
30010KC4TJ	R373,374,625	Resistor Carbon 1/4W T 5% 10K	
300150C4TJ	R376,377,408	Resistor Carbon 1/4W T 5% 150	
30010KC4TJ	R604,606,622	Resistor Carbon 1/4W T 5% 10K	
30010KC4TJ	R624,637,638	Resistor Carbon 1/4W T 5% 10K	
300470C4TJ	R634	Resistor Carbon 1/4W T 5% 470	
3001K5C4TJ	R640,643,644-646	Resistor Carbon 1/4W T 5% 1K5	
300820C4TJ	R641,642	Resistor Carbon 1/4W T 5% 820	
3010Kx5	PR601	Resistor Carbon 10Kx5	
40100P50RM	C101-106,201-206	Capacitor Ceramic 100PF 50V	
404P7U25RM	C107,109,207,209	Capacitor Electrolytic 4.7uF 25V	
40047U25RM	C110,149,150,210	Capacitor Electrolytic 47uF 25V	
40010U25RM	C111,124,211,312,331	Capacitor Electrolytic 10uF 25V	
404P7U25RM	C112,153,228,409,505	Capacitor Electrolytic 4.7uF 25V	
41563U50RJ	C113,114,213,214	Capacitor Ceramic 563 50V	
41563U50RJ	C115,118,215,218	Capacitor Ceramic 563 50V	
42100P50RJ	C116,216,353,402,502	Capacitor Ceramic 100P 50V	
40001U25RM	C117,217,337,601	Capacitor Electrolytic 1uF 25V	
41222U50RJ	C119,219	Capacitor Ceramic 222 50V	
40001U25RM	C120,148,220,336	Capacitor Electrolytic 1uF 25V	
40100U16RM	C121,130,221,330,338	Capacitor Electrolytic 100uF 16V	
40100U16RM	C122,171,222,350	Capacitor Electrolytic 100uF 16V	
402P2U25RM	C123,157,223	Capacitor Electrolytic 2.2uF 25V 10%	
40100U16RM	C125,225,230,252	Capacitor Electrolytic 100uF 16V	
404P7U25RM	C126,226,341,351	Capacitor Electrolytic 4.7uF 25V	
40010U25RM	C127,224,329,611	Capacitor Electrolytic 10uF 25V	
404P7U25RM	C128,352,356,509	Capacitor Electrolytic 4.7uF 25V	
41104U50RJ	C129,154,229,233	Capacitor Ceramic 104 50V	
41223U50RJ	C131,132,231,318	Capacitor Ceramic 223 50V	
41104U50RJ	C133,234,253	Capacitor Ceramic 104 50V	
41104U50RJ	C134,302,314,334	Capacitor Ceramic 104 50V	
47680P50RJ	C135,235	Capacitor PP 680P 50V	
404P7U25RM	C138,212,247,343	Capacitor Electrolytic 4.7uF 25V	
404P7U25RM	C139,159,238,239	Capacitor Electrolytic 4.7uF 25V	
42022P50RJ	C140,240,315	Capacitor Ceramic 22P 50V	
404P7U25RM	C141,241,354,506,620	Capacitor Electrolytic 4.7uF 25V	
404P7U25RM	C142,405,501,507	Capacitor Electrolytic 4.7uF 25V	
41103U50RJ	C144,244,305,307,309	Capacitor Ceramic 103 50V	
42100P50RJ	C145,245	Capacitor Ceramic 100P 50V	
4001KU16RM	C146,406,604	Capacitor Electrolytic 1000uF 16V	
41223U50RJ	C147,355,605	Capacitor Ceramic 223 50V	
41103U50RJ	C152,251,333,347,413	Capacitor Ceramic 103 50V	
41203U50RJ	C155	Resistor Carbonic 203 50V	
404P7U25RM	C156,345,408,510	Capacitor Electrolytic 4.7uF 25V 10%	
43224U50RJ	C160,161,248,249	Capacitor Metal 224 50V	
43334U50RJ	C162,163,254,255	Capacitor Metal 334 50V	

PART NUMBER	REFERENCE NUMBER	DESCRIPTION					REMARKS
40220U16RM	C164,165,344	Capacitor	Electrolytic	220uF	16V		
42203U50RJ	C170,612-616	Capacitor	Ceramic	203	50V		
40010U25RM	C227,250,325,606,607	Capacitor	Electrolytic	10uF	25V		
41223U50RJ	C232,246,319,610	Capacitor	Ceramic	223	50V		
404P7U25RM	C242,311,324,342	Capacitor	Electrolytic	4.7uF	25V		
47470P50RJ	C306	Capacitor	PP	470P	50V		
41472U50RJ	C308,328	Capacitor	Ceramic	472	50V		
4191KP50RJ	C310	Capacitor	Ceramic	100P	50V		
41332U50RJ	C313	Capacitor	Ceramic	332	50V		
42022P50RJ	C316,340,404	Capacitor	Ceramic	22P	50V		
41102U50RJ	C320	Capacitor	Ceramic	102	50V		
47560P50RJ	C321	Capacitor	PP	560P	50V		
41122U50RJ	C322	Capacitor	Ceramic	122	50V		
47150P50RJ	C323	Capacitor	PP	150P	50V		
404P7U25RM	C326,403,410,412	Capacitor	Electrolytic	4.7uF	25V		
41822U50RJ	C327	Capacitor	Ceramic	822	50V		
41473U50RJ	C332	Capacitor	Ceramic	473	50V		
40P33U25RM	C335	Capacitor	Electrolytic	0.33uF	25V	10%	
402P2U25RM	C346,407,511	Capacitor	Electrolytic	2.2uF	25V	10%	
41273U50RJ	C349	Capacitor	Ceramic	273	50V		
41683U50RJ	C503	Capacitor	Ceramic	683	50V		
41153U50RJ	C504	Capacitor	Ceramic	153	50V		
40047U25RM	C602,603,618,619	Capacitor	Electrolytic	47uF	25V		
403P3U25RM	C608,609	Capacitor	Electrolytic	3.3uF	25V	10%	
131N4148TO	D101-106,108-110	Diode		1N4148			
131N4148TO	D107,112,601	Diode		1N4148			
131N4148TO	D113-116,602-619,621	Diode		1N4148			
131N4148TO	D201-203,401-403,502	Diode		1N4148			
131N4148TO	D301-304,501,624-626	Diode		1N4148			
1320A90*TO	D620,622,623,627	Diode		20A90/1N60			
13Z6P8P5TO	Z103,203,401	Zener Diode		6.8V			
13Z7P5P5TO	Z101,102,106	Zener Diode		7.5V			
13Z7P5P5TO	Z107,201,202	Zener Diode		7.5V			
13Z8P2P5TO	Z104,105,601,602	Zener Diode		8.2V			
122SC1815	Q103,203,305,601-604	Transistor		2SC1815			
122SC1815	Q105,205,303,402	Transistor		2SC1815			
122SA1015	Q101,201,304	Transistor		2SA1015			
122SA1015	Q104,107,204	Transistor		2SA1015			
122SC3327	Q106,206,306,401,501	Transistor		2SC3327			
122SK170	Q102,202,301,302	FET		2SK170			
11TC9152	IC101,601	I.C.		TC-9152			
11TC4053	IC102,602	I.C.		TC-4053			
114558DD	IC103-105,303-307	I.C.		JRC4558DD			
114558SD	IC106,107,110,311	I.C.		JRC4558SD			
11SSM2126A	IC108	I.C.		SSM-2126A			
11NE5532	IC111	I.C.		NE5532			
11TC9153	IC112,312,401,501	I.C.		TC-9153			
11SSM2404P	IC113,302,603	I.C.		SSM-2404P			
11YM3248	IC308	I.C.		YM3428			
11NE646	IC309	I.C.		NE646			
1178LS05	IC310	I.C.		78LS05			
114558SD	IC313,502,503	I.C.		JRC4558SD			
11TC4013	IC604,605,607,608	I.C.		TC-4013			
11TC4028	IC606	I.C.		TC-4028			
115C114E	IC609,610	I.C.		5C114E			
50C3P58	X301	Crystal Oscillator, Ceramic			3.58MHz		
31610KHS	TVR101,201	TVR	6	H-Type	10K		
22SS004	SW601,602	Slide Switch		SS004-P022BY-PF8			
Chassis							
55AC0715		AC Socket		AC004		⚠	AH Version
682SPT22B		AC Cord		SPT-2		⚠	AH Version
682PVDE2B		AC Cord		2P	VDE	⚠	C Version
70EMUV910	T001	Transformer				⚠	

PACKING DIAGRAM

ITEM	PART NUMBER	NAME	QTY
37	94200540	EPE Bag	1
38	94440570	Polybag Unit	1
39	90PF141	Polyfoam	2
40	91G019NAD	Gift Box	1
41	93NAD910M	Instruction Manual	1
42 *AH		Safety Instruction Sheet (AH)	1
43 *AH		Warranty Card (AH)	1
44	94240400	Polybag Manual	1
45	98RCA09029	RCA/RCA RED/WHT 90cm	1
46	98RCA0904	RCA/RCA YELLOW 90cm	2
47	98RCA0450	RCA/RCA BLK 45cm	1
48	98RCA04529	RCA/RCA RED/WHT 45cm	3
49	94240400	Polybag RCA cables	1
50	55UM3NAD	Battery UM-3	2
51	28KT187NAD	Remote Control KT-187	1
52	4E281NAD	PE bag 80x200mm E281	1



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